

Planning Statement for VPDES Permit Application Processing DEQ-SCRO

VPDES	OwnerName	Facility	County
VA0091863	John H. Kerr Dam	John H. Kerr Dam Powerhouse	Mecklenburg

Outfall #: 001

River Basin: Roanoke River

Receiving Stream: Roanoke (Staunton) River

Subbasin: Roanoke River

Watershed Code: L78R

River Mile: 18.04

	MGD		MGD
1Q10	0	HF 1Q10	0
7Q10	0	HF7Q10	0
30Q5	0	HF30Q10	0
30Q10	0	HM	0

Modeling Notes

No Model

WQMP Name 9 VAC 25-720-80

Statement There are no allocations in the plan for this facility.

TMDL ID L78R-01-DO & L80L-01-PCB


Impairment Cause DO & PCBs

TMDL Due Date PCBs - 2016

Completed TMDL Information

The dissolved oxygen impairment is listed as Category 4B - No TMDL Needed.

TMDL Approval Dates



 Amanda B. Gray, Water Planning Engineer or
 Paula Nash, TMDL Coordinator

2/2/11

 Date

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY

South Central Regional Office - Water Planning

7705 Timberlake Road Lynchburg, VA 24502 434/582-5120

SUBJECT: Flow Frequency Determination
John H. Kerr Powerhouse #VA0091863

TO: Leah Revelle

FROM: Amanda Gray *agray*

DATE: February 2, 2011

COPIES: File

The John H. Kerr Powerhouse discharges to the Roanoke (Staunton) River below the dam via fourteen outfalls. Stream flow frequencies are required for this site by the permit writer for the purpose of calculating effluent limitations for the VPDES permit. The values at the discharge point are based on the recorded minimum daily discharge for 2005, submitted by the facility during the application process. In order to calculate more accurate flows downstream of the dam it is recommended that the facility monitor flow the duration of the VPDES permit cycle. If you have any questions regarding this analysis, please let me know.

Roanoke (Staunton) River at John H. Kerr Dam:

Drainage Area = 7780 mi²

1Q10 = 0.0 MGD	High Flow 1Q10 = 0.0 MGD
7Q10 = 0.0 MGD	High Flow 7Q10 = 0.0 MGD
30Q5 = 0.0 MGD	High Flow 30Q10 = 0.0 MGD
30Q10 = 0.0 MGD	Harmonic Mean = 0.0 MGD

MEMORANDUM
Department of Environmental Quality
Blue Ridge Regional Office

7705 Timberlake Road

Lynchburg, Virginia 24502

Subject: Planning and TMDL Service Requests for VPDES Permits

To: Amanda Gray, Water Planning Engineer to
Paula Nash, TMDL Coordinator

From: Leah Revelle, Water Permit Writer

Date: 12/14/2010

Copies: Planning File

The request for information is to be made at the following times:

Planning: Upon sending the reissuance reminder letter to the facility or, for an issuance or modification,
at the time of application/modification request receipt.
TMDL: Same as above. For VPDES general permits, at the time of registration statement receipt.

FACILITY NAME: John H Kerr Powerhouse

VPDES PERMIT NO. VA0091863 EXPIRATION DATE: 6/28/2011

FACILITY PHYSICAL LOCATION: 5460 Buggs Island Road, Boydton 23917 (Mecklenburg Co.)

INDIVIDUAL PERMIT ACTION: Issuance Reissuance Modification

GENERAL PERMIT ACTION: New Coverage Previously Covered – N/A

PERMIT TYPE: Major Minor General Municipal Industrial Storm Water TMP TRE

If a VPDES General Permit, which type: _____

PERMIT WRITERS: ATTACH THE FOLLOWING

- Topo map with facility location and outfall locations clearly marked (include any proposed outfalls)
- Site diagram for facilities with multiple outfalls
- Description or map showing effluent flow path if not apparent on topo map
- The outfall numbers, latitude, longitude, receiving stream and topo name in the table below (use an additional sheet if there are more outfalls)

Outfall No.	Latitude	Longitude	Receiving Stream	Topo Name
001	36° 36' 0.4"	78° 18' 2.9"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
002	36° 35' 56.9"	78° 17' 58.1"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
003	36° 35' 56.2"	78° 17' 57.5"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
004	36° 35' 58.1"	78° 18' 5.4"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D

005	36° 35' 59.7"	78° 18' 2.2"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
006	36° 35' 59.7"	78° 18' 1.5"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
007	36° 35' 59.7"	78° 18' 1"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
008	36° 35' 59.7"	78° 18' 0.1"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
009	36° 35' 59.7"	78° 17' 58.9"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
010	36° 35' 59.7"	78° 17' 58.4"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
011	36° 35' 59.7"	78° 17' 57.8"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
012	36° 35' 58.6"	78° 18' 2.7"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
013	36° 35' 58.8"	78° 18' 2.8"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D
014	36° 36' 2.6"	78° 17' 59.8"	Lake Gaston (Roanoke River)	John H Kerr Dam, 011D

DATE INFORMATION NEEDED: December 21, 2010